

AU Desai D D; Krishnan M R; Swindle J T; Marion T N
CS Department of Microbiology and Immunology, University of Tennessee,
Memphis 38163..
NC AI 26833 (NIAID)
BRSG-RR05423 (NCRR)
AI 07238 (NIAID)
SO JOURNAL OF IMMUNOLOGY, (1993 Aug 1) 151 (3) 1614-26.
Journal code: IFB. ISSN: 0022-1767.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals
EM 199310
AB Spontaneous anti-DNA antibodies in autoimmune mice have the characteristics of antibody produced by Ag-specific, clonally selective B cell stimulation. The nature of the somatically derived antibody V region structures recurrent among spontaneous anti-DNA antibodies suggests that DNA or DNA-protein complexes may provide the antigenic stimulus for autoimmune anti-DNA antibody. In order to test this hypothesis directly, we have immunized normal, nonautoimmune-predisposed mice with complexes formed with DNA and an immunogenic, DNA-binding peptide. The highly immunogenic peptide, Fus1, forms an internal domain of a 128-amino acid ubiquitin-fusion protein from Trypanosoma cruzi. DNA-Fus1 complexes formed with native calf thymus DNA induced anti-DNA antibody in normal, nonautoimmune-predisposed mice that is similar in isotype and specificity to spontaneous anti-DNA antibody in (NZB x NZW)F1 autoimmune mice. The progressive nature of the development of dsDNA specificity in the immunized mice was also analogous to what is observed in the spontaneous anti-DNA antibody response of autoimmune (NZB x NZW)F1 mice. DNA-Fus1 immunized mice that produced IgG that bound to dsDNA had low to moderate levels of proteinuria and glomerular deposits of IgG. This experimental immunization system may be useful for understanding the immunologic basis for autoimmunity to DNA.

=> d his

(FILE 'HOME' ENTERED AT 12:56:37 ON 11 AUG 2000)

FILE 'MEDLINE, BIOSIS, CANCERLIT, CAPLUS, EMBASE' ENTERED AT 13:01:10 ON 11 AUG 2000

L1 19243 S UBIQUITIN
L2 2065 S L1 AND (CHIMER? OR FUSION# OR HYBRID#)
L3 232205 S L2 AND VACCINE OR IMMUNOGENIC OR IMMUNE RESPONSE
L4 48 S L2 AND (VACCINE OR IMMUNOGENIC OR IMMUNE RESPONSE OR ADJUVAN
L5 26 DUP REM L4 (22 DUPLICATES REMOVED)
L6 214 S UBIQUITIN FUSION PROTEIN?
L7 4 S L6 AND VACCINE
L8 131 S L2 AND (VACCINE OR IMMUNOGENIC OR IMMUNE RESPONSE OR ADJUVAN
L9 65 DUP REM L8 (66 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 13:15:10 ON 11 AUG 2000

FILE 'MEDLINE, BIOSIS, CANCERLIT, CAPLUS, EMBASE' ENTERED AT 13:20:42 ON 11 AUG 2000

FILE 'STNGUIDE' ENTERED AT 13:20:44 ON 11 AUG 2000

FILE 'MEDLINE, BIOSIS, CANCERLIT, CAPLUS, EMBASE' ENTERED AT 13:21:45 ON 11 AUG 2000

FILE 'STNGUIDE' ENTERED AT 13:21:46 ON 11 AUG 2000

Ubiquitin

~~epitope~~ or vaccine~~#~~ or immunogenic or
immune response or adjuvant or antigen~~#~~

ubiquitin + (fusion or chimer? or hybrid?)

(3 + N-terminus)

(3 + (stimulat? or elicit?))

file hits - Igene, genbank, biotools
uspatfull, windex